FarmBoss II 1000cc Diesel UTV

Owner's manual

READ THIS MANUAL CAREFULLY

It contains important safety information
This is an adult vehicle only
Operation is prohibited for those under 16 years of age.

Introduction:

Thank you for buying WINWAY FarmBoss 1000cc 4×4 diesel UTV. WINWAY has been committing to providing a durable, reliable & low cost diesel UTV (FarmBoss) to market. At last an alternative to the overpriced machines from the big brands!

The company has been operating since 2007, specialized in design and manufacturing of high quality ATVs and UTVs. We have deep background in mechanical engineering and fabrication technology. To satisfy customer demands, we are continuously improving our quality, designs and services. With the quality products and professional back up service, now WINWAY has been a recognized brand by the market.

Value for money,
quality assured &
customer service lends to our motto:
"SOLD BUT NOT FORGOTTEN"

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Particularly important information is distinguished in the manual by the following notations:

ATTENTION: The Safety Alert Symbol means:
ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!
WARNING: Failure to follow WARNING instructions could result in severe injury or death to the vehicle operator, a bystander or a person inspecting or repairing the vehicle.
CAUTION: A CAUTION indicates special precautions that must be taken to avoid damage to the vehicle.
NOTE: A NOTE provides key information to make procedures easier or clearer.

- Failure to follow the warning and advice in this manual can result in serious injury or death.
- **"Warning"**- Safety First- Important notice.

FarmBoss UTVs are designed for work and not for high speed competition use, there will always be new ways of have accidents, but Winway's sincere desire is for you to work safety. Remember inexperience is the biggest contributing factor in accidents. Read this manual carefully, obey the instructions, warnings and cautions and always use commonsense. Remember loss of control can lead to serious injury or death. Young adults and inexperienced riders, must have proper instruction and be fully supervised, until fully competent to ride an UTV. Make sure all instructions are understood.
Remember you are responsible for you own safety and the safety of those in you care. Winway cannot be held liable for accidents no matter what the cause. You are responsible for checking your vehicle thoroughly for faults, and for riding in a safe manner.
With any motor vehicle operation, there is an element of risk. By choosing to ride this vehicle, you have accepted this risk. Winway is not responsible for negligence, speeding, component failure, inexperience and other unforeseen circumstances, that can cause injury or death.

Remember safety first!

To assist you with safety, here is some advice you need to be aware of.
Only you can protect yourself.
Safety is your responsibility, for yourself and minors in your care.

1. Pay attention and obey the warning labels on the vehicle, (if they become faded or are removed, replace them immediately).
2. Take introduction and make certain you are fully aware of, and able to operate, the controls of the vehicle.
3. Ride under the instruction or a competent teacher, until you are an experienced rider.
4. These vehicles are designed and manufactured for off road use only. It is illegal and unsafe to use the machine on any public street, road, or highway, tarred, dirt, paved, or cement.
5. Please check your local riding laws and regulations before operating this machine.
6. Please check local environmental laws and respect them. Winway would like to keep our environment clean, safe, and beautiful for all to enjoy as we are sure you do.
7. Riding and UTV is a serious matter, it can be hazardous to operate. A collision, or roll over can occur quickly, with often serious consequences, even routine manoeuvres, like turning, riding over

obstacles and sloping ground, or across water, mud, or loose surfaces can be hazardous. The quad handles differently to other vehicles.

8. Never exceed the recommended load capacity. Cargo should be properly distributed and securely attached. If carrying a load, allow greater distances for braking and reduce your speed, especially if pulling a small trailer. Overloading, or improper loading, can cause mechanical failure，loss of control and unnecessary danger.
9. Never fit unauthorized accessories to the UTV.
10. Never ride faster than your skill, or conditions permit.
11. Never ride when tired, or after consuming alcohol, drugs, or with a dangerous medical condition.
12. Inspect your UTV each time you use it, make sure there are no mechanical faults, faulty tyres, brakes, or controls.
    It must be in safe operating, condition, with sufficient oil, fuel, braking fluid and tyre pressure.
13. Always follow inspection and maintenance procedures as recommended.
14. Always use the recommended tyres and pressures to lessen the risk of tyre failure.
15. Always turn the engine off when refuel.
16. Don't run the engine in an enclosed area as this can be fatal.
17. Engine oil from a recently run motor can be very hot. When draining, for an oil change, be careful.
18. When changing a fuse, fit the correct one, as an incorrect fuse can cause a fire.
19. When checking battery fluid, remember a spark could cause the battery to explode.
    Switch off engine and power and avoid sparks.
20. Never put your feet on the ground when vehicle is in motion, or moving off.
21. It is your responsibility to make sure that the UTV is properly and safely ridded and maintained.
22. People should not operate an UTV beyond their physical, or mental limitation, or capabilities。
23. Keep the owner's manual in a safe place of the vehicle, or under the seat at all times.
24. Only use an UTV on level, open ground, away from people, while learning.
25. Obey government laws at all times.
26. Contact your agent for anything that you do not understand, or need advice on.
27. If you allowed untrained people to use UTV, you endanger his/ her life, and the lives of others..
28. All riders should take a safety course of instruction.
29. Never use gasoline (petrol) to clean your UTV.
30. A slight spark could cause a fatal explosion. Keep a fire extinguisher handy when working.
31. "Grabbing" shuddering, or lack of braking ability, could mean there is a serious problem with the brakes. This must be remedied before riding, to prevent a possibly serious accident.
32. Don't touch any part of the engine, exhaust, or silencer until it has cooled down.
33. Don't siphon toxic liquids like fuel, or brake fluid by mouth, or allow them to remain on your skin.
34. Wipe up any oil, or grease that could cause you to slip, or lose the controls on the UTV.
35. Don't allow animals, or children around an unattended UTV.
36. Remember, many people have lost fingers and limbs that have got pulled into moving parts, especially chains or belt. Do not work on the UTV with engine running.
37. If in spite of all these precautions being followed, you are unfortunate enough to injure yourself, please seek medical attention immediately.

* This safety list was complied by WINWAY with intention of creating awareness, and improving your safety.
SAFETY COMES FIRST. ... FarmBoss II Diesel UTV will be your good assistant on farm, forestry, mining & construction site ...

WARRANTY:

WINWAY warrants the FarmBoss 1000 vehicle for a period of 12 months from the date of sale, consist of parts and freight costs

The warranty covers faulty workmanship and defects in the engine, CVT transmission and differentials etc.

ALL warranty claims must be accompanied with the purchase documentation.

WARRANTY EXCLUSIONS:

A. Normal wear and tear items such as air filter, oil filter, fuel filter, belts, bushings, gaskets, bearings, brake pads, tires, lights, wiring, battery, electrical components etc.
B. Damage or abnormal wear due to accident or neglect.
C. Uses that FarmBoss 1000 is not designed for e.g. overloading, excessive heavy load towing, or fitting of non approved/standard accessories or equipment.
D. Water immersion or corrosion and damage arising there-from.
E. Use of incorrect or contaminated oils or fuels
F. Lack of regular maintenance and servicing
G. Damage to engine or transmission by operating without any or insufficient oils, improper or lack of air cleaner maintenance.
H. Damage to transmission by improper gear shifting.
I. Damage caused by overheating due to foreign matter clogging radiator/cooling fans or lack of cooling fluids.
J. Transmission drive belt.
K. The owner does not perform his owner's obligations, which are on the next page.

OWNER'S OBLIGATIONS:

A. The running in (brake in) procedure must be followed carefully as described in the handbook.
B. All work on the vehicle must be performed by a Winway authorized dealer.
C. The owner must take the vehicle to an authorized Winway dealer for periodic maintenance, as in the maintenance chart provided. This work is for the owners' expense. It is recommended that after the warranty expires, work on the vehicle and maintenance is till done by an authorized dealer to prolong the vehicle's life.
   Maintenance must be recorded in the service record section of this book. This will also assist in obtaining a higher price for the vehicle if it is re-sold.
D. Do not operate the vehicle if an apparent defect poses danger, affects reliability, or causes further damage.
E. Inform your dealer when a problem occurs and take it for inspection within ten days.
F. Any others owner's instructions described in the owner's manual must also be complied with.

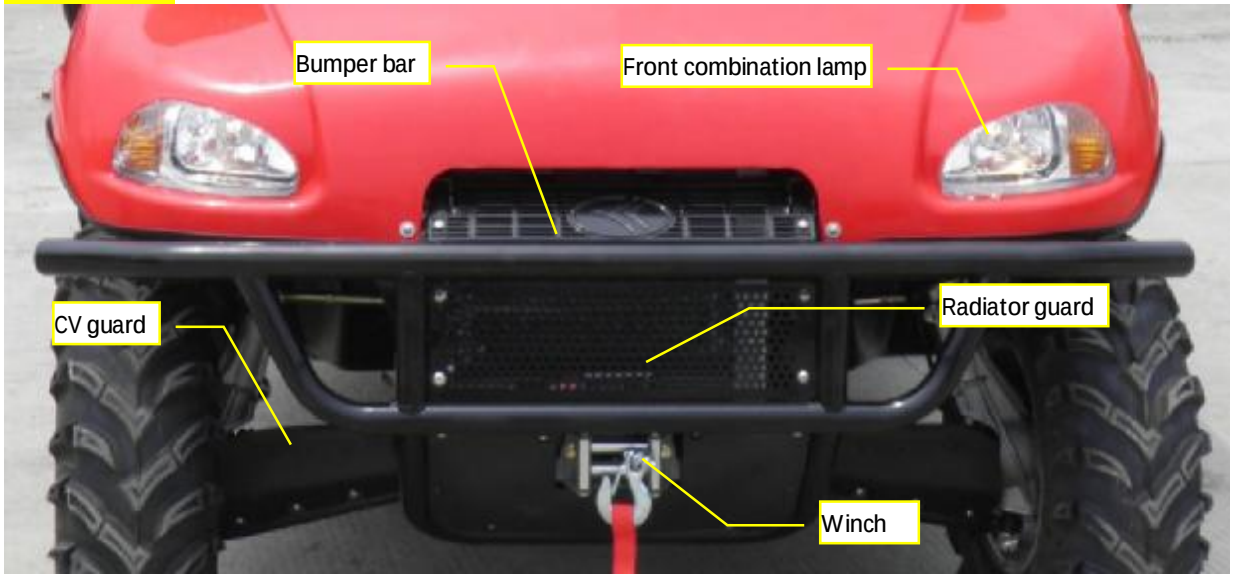
FarmBoss II 1000cc Diesel UTV, Daihatsu Power

Engine	Make	Daihatsu 1.0L Diesel
	Type	3-Cylinder, water & oil cooled, 4-storke, swirl
	Displacement	1.048L
	Horsepower	Rated Power: 17.5kw/3600 r/min; 23.6 hp.
Engine starting		Electric start
Dimensions	L x W x H	3160mm×1550mm ×1950mm
	Front Tread Centers	1230mm
	Rear Tread Centers	1330mm
	Wheelbase	2095mm
	Ground Clearance	300mm
	Turning Radius	5 M
Fuel Capacity U.S. gals(L)		30L

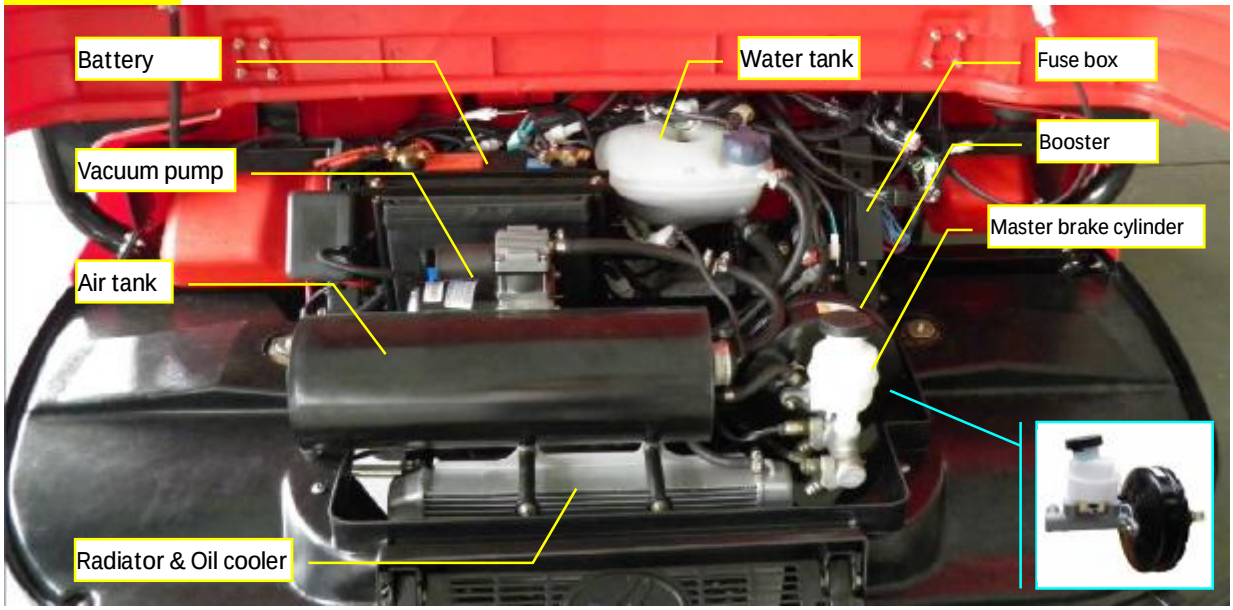
Engine starting		Electric start
Transmission		Automatic CVT , 4x4
Gear Selection		CVT-R N L H
Wheels, Drive System		2WD/4WD switch, Shaft, Electronic diff locks.
Top Speed	In high gear range	65 km/h
	In low gear range	38 km/h
Brake	Front / Rear	Hydraulic disc with power booster
Braking Distance		Less than 7M at 30km/h
Steering		Rack and Pinion
Suspension	Front	Independent Mac-Pherson strut
	Rear	Independent dual A- arm
Towing Capacity		910 kg (2006 lbs)

Cargo Bed Load Capacity		500 kg (1100 lbs)
Fuel Consumption	On Road	6 L / 100km
	Off Road	10 L/100km
Weight (unloaded)		795kg (1752 lbs)
Cargo Bed	Width x Length	1435mm x 1250mm
	Bed Deep mm	330mm
	Cargo Bed load	500 kg (1100 lbs)
Sound Level, at Operator's Ear db.(A)		82 db
Tires	Front	All Terrain 25x8-12 : 6 ply
	Rear	All Terrain 25x10-12 : 6 ply
Body Color		Red/Green/Camouflage

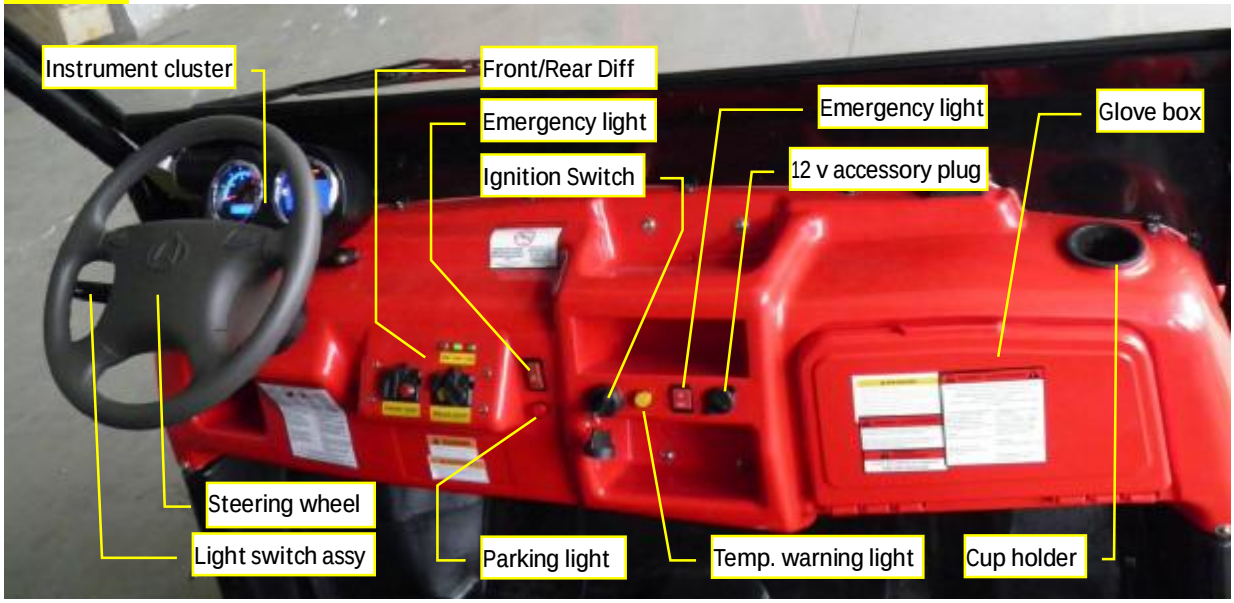
Front Cover:



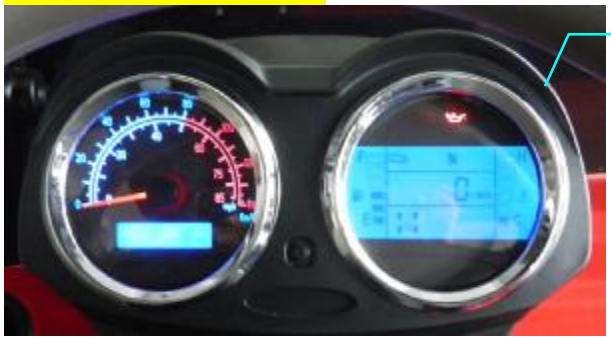
Under cover:



Console :



LCD instrument cluster:

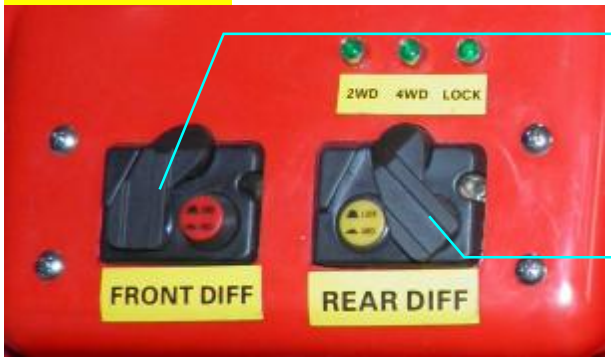


1. Speedometer
2. Odometer
3. Tachometers
4. Water temperature
5. Fuel indicator
6. 2WD/4WD display
7. Gear shifting sign
8. Light indicator

Light switch assy:

1. Horn
2. Turing Right
3. Turning Left
4. Off
5. low beam
6. high beam

Front / Rear Diff:



Front diff:
2WD : which transfer power to rear axle.
4WD: which transfer power to front & rear axle.
Diff lock : locking front two wheels on an axle.

WARNING:
Turning is dangerous when front differential locked.

Rear diff:
4wd engaged, rear wheels drive in normal driving conditions.
Diff lock : locking rear two wheels on an axle.

Ignition switch:

ON: All electrical circuits are supplied with power, the ignition system and fuel system, the headlights and taillights come on when the light switch is on.

OFF: All electrical circuits are switched off. The key can be removed in this position.

Start: The electric starter is engaged by turning and holding the key in this position. Release the key when the engine starts.

Preheat: Engine preheat and all electrical circuits are supplied with power.

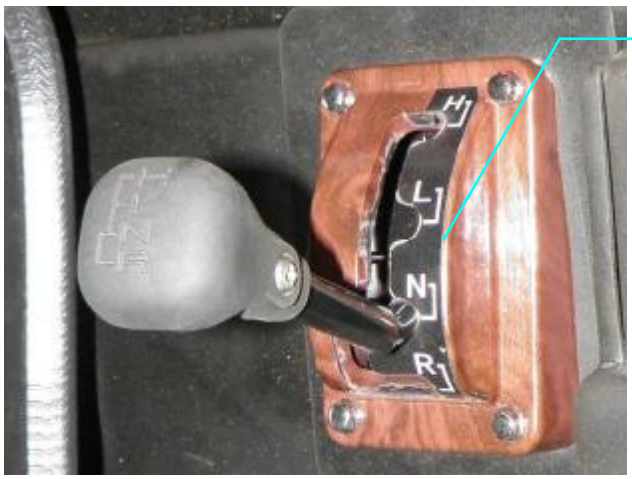
CAUTION:

Do not operate the electric starter continuously for more than 5 seconds, or starter damage could occur. Wait at least 5 seconds between each operation of the electric starter to let it cool.

Do not turn the key to the "START" position with the engine running, or damage to the electric starter can result.

See starting instructions prior to starting the engine.

GEAR SHIFTING:



H : High gear range
L : Low gear range
N : Netrual
R : Reverse

WARNING

Brake the UTV before gear shift. Please don't shift gear when UTV is moving, it will cause damage to the gears

ATTENTION:

Condition	Level
Drive speed lower than 9.4mph（15kmph）	low
Drive on the rough ground or through obstacles	low
Drive towing a trailer or Heavy load	low
Steep hill or slope	low
Driving speed faster than 9.4mph（15km/h）	high

WARNING

Pls advancing the throttle slightly when gear shifting is difficult, then shift the gear.

This sign means gear shifting is allowed

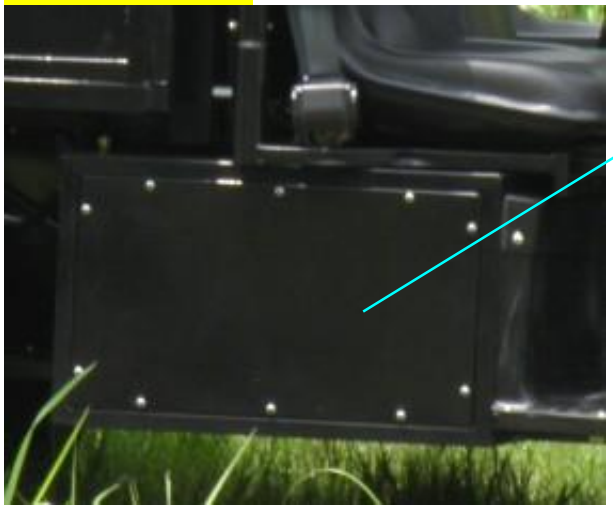
Tachometers

Water temperature

Front diff indicator
WARNING: Turning is dangerous when front diff locked

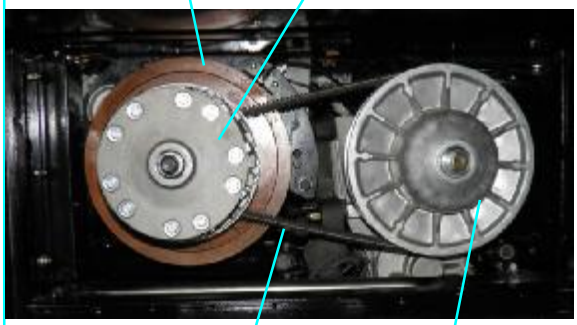
Fuel indicator

CVT Transmission:



Fly wheel

Drive pulley



Drive belt

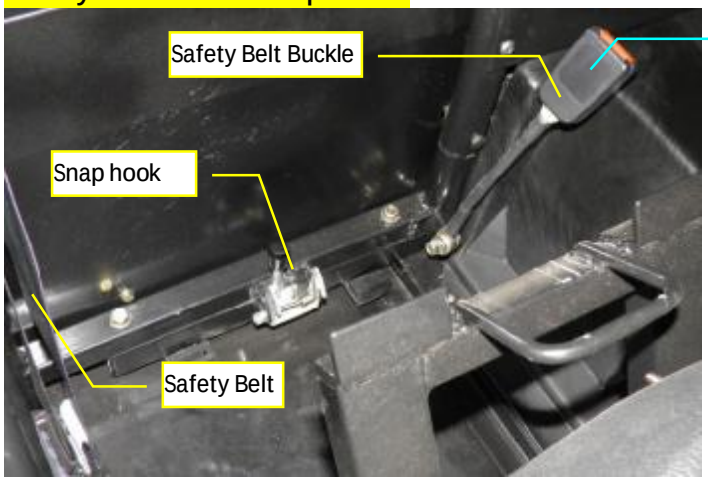
Driven pulley

Sliding seat:

Adjust handle:

1. Pull seat adjust handle upward to disengage seat sliding.
2. Move seat to desired position.
3. Be sure seat adjustment handle snaps back into place and that seat is locked into position.

Safety belt & Seat Snap hook:



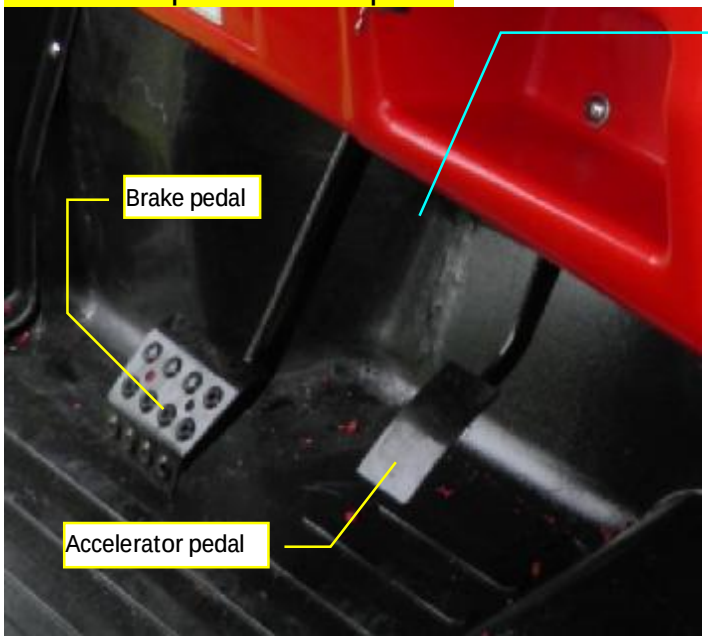
Three-point seat belts :

To wear the seat belt properly, do the following:

1. Hold the latch plate as you pull the bell across your lap and chest.
2. Push the latch plate into the buckle until it clicks.

CAUTION: Always wear the seat belt while riding in the vehicle.

Accelerator pedal & Brake pedal:



Accelerator pedal:

Press the accelerator pedal down to increase speed. Spring pressure returns the pedal to the rest position when released.

Make sure the accelerator pedal fully returns to the idle position as soon as it is released.

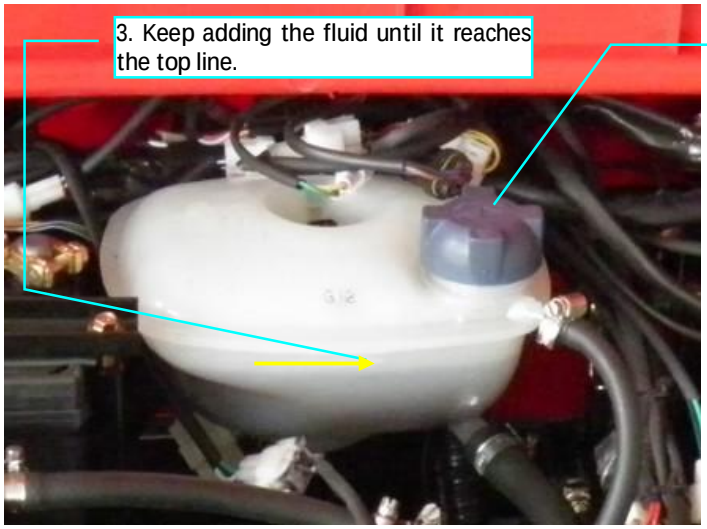
Brake pedal

Press the brake pedal to slow or stop the vehicle.

Make sure the brake pedal fully returns to the position as soon as it is released.

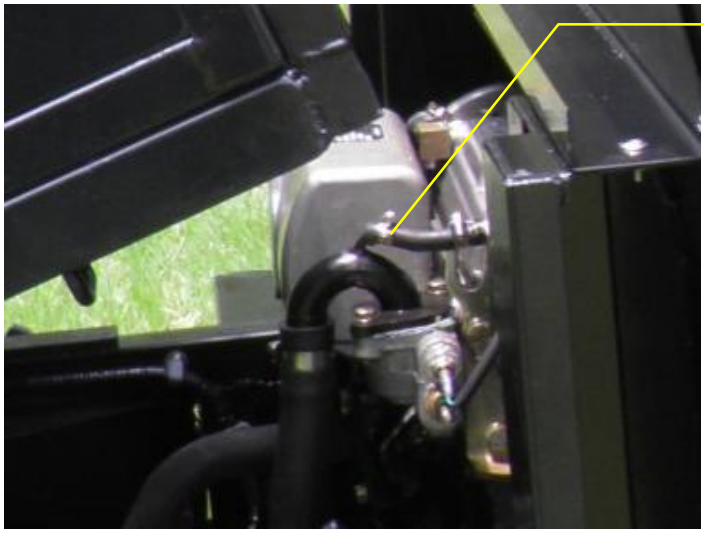
CAUTION: Always check that the accelerator pedal & brake pedal returns normally before starting the engine.

Add Radiator fluid:


3. Keep adding the fluid until it reaches the top line.
1. Open the cap and add the fluid.
2. Open the valve when adding the fluid, and close the valve when the fluid comes out

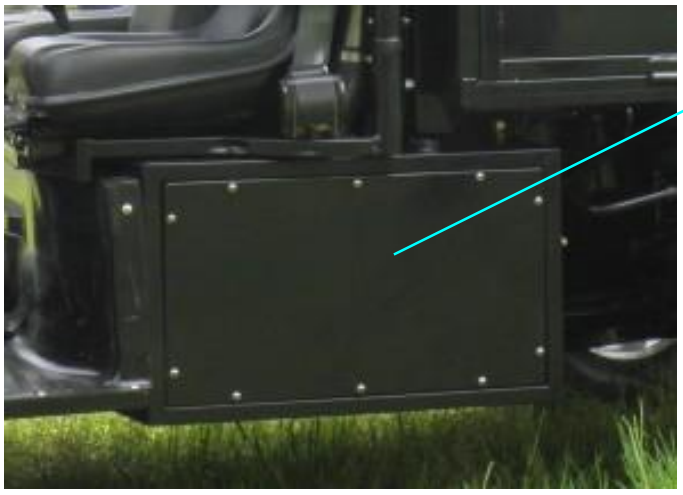
WARNING – OVERHEATING: Do not switch off engine when temp. warning Light on (engine overheating), you should stop the UTV, let engine idle till the Light off. If you switch off engine while overheating, the fan stop working, the fluid stop flowing, that will cause damage to the engine.

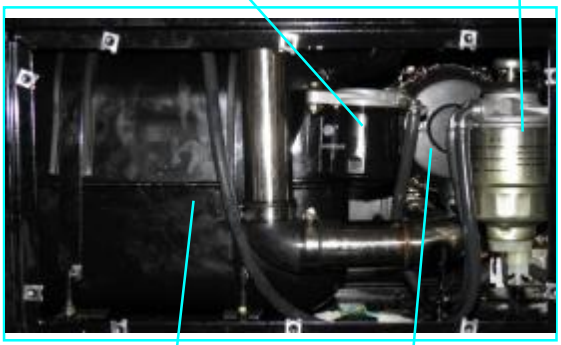
Air release valve:



Air release valve:
Unexpected air will often disrupt the system pressure and eventually disrupt the coolant system, the valve can release the air in the system

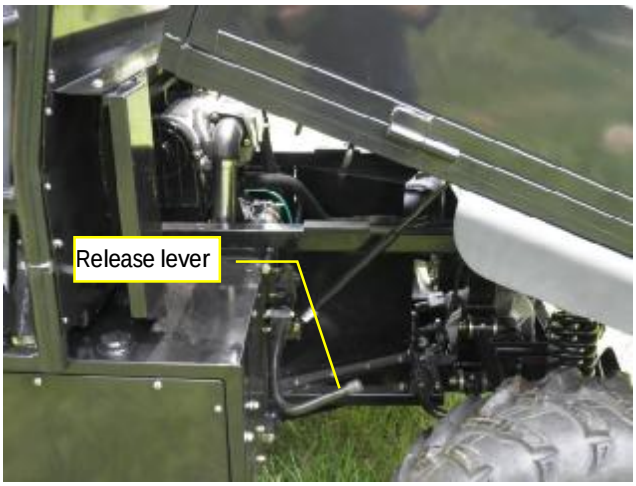
Replace Fuel filter & air filter:





AIR FILTER: Do not twist the filter element when squeezing it. Never operate the engine with the air filter element removed. The life of engine will be much shorter if air filter never been cleaned or re-placed.

Flat tray & Manual Tilt:



WARNING:

Operating the vehicle while the cargo box is raised could result in severe injury. The box could close unexpectedly and cause injury to the driver or passenger. The rear tires will also catch the rear of a raised box, damaging the vehicle and creating hazardous driving conditions.

Never operate this vehicle with the cargo box in the raised position.

Warning: If the weight distribution on the box is located toward the rear of the box when the release lever is pulled forward, the box may dump unexpectedly and cause serious injury to the operator or bystanders.

Never operate the dump lever without ensuring that the load is positioned evenly or at the front of the box.

Battery:

CAUTION: Do not leave the head light on for more than 2 minutes while engine is off, because the battery may discharge, and cause starting problems. If this happens, remove the battery and recharge it.

Replenishing the battery fluid

The battery will corrode and discharge quicker if it is not maintained. The battery fluid should be checked at least one month.

The fluid level should be always within the upper and lower levels marked on the battery.

Use only distilled water if refilling is necessary. CAUTION: NEVER ADD TAPE WATER INTO THE BATTERY

Tire:

	FarmBoss II
Front tire size: (Ft)	AT25 in ×8in × 12in
Max load :	340 lbs AT 7 psi
Max load:	155 kgs AT 45 kpa
Rear tire size:(Ft)	AT25 in ×10in × 12in
Max load :	420 lbs AT 7 psi
Max load:	190 kgs AT 45 kpa

Tire pressure must be equal on both sides.

If the tire pressure goes lower than the minimum, it could cause the tire to dislodge from the rim.

Do not go higher than the pressures shown below when pumping up the tires.

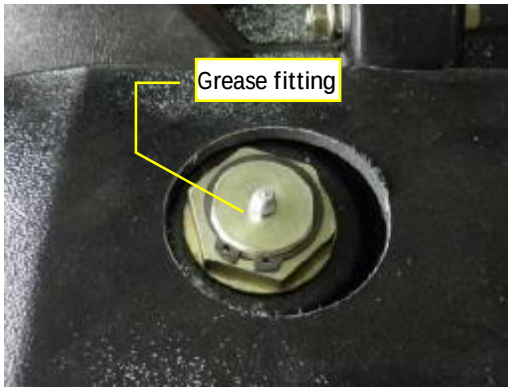
WARNING: Do not inflate beyond 250 kpa(36psi) when seating reads.

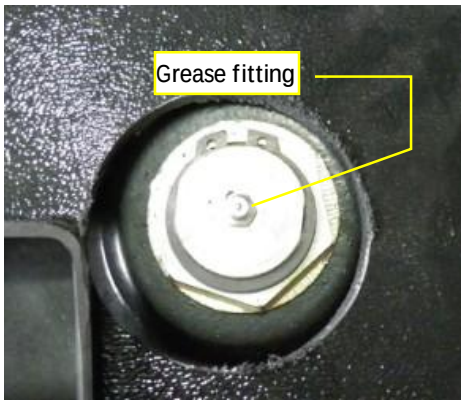
Not for highway services the spirit of innovation.

Wheel bolt lock torque (N.m): (M 10) 50-55 N.m

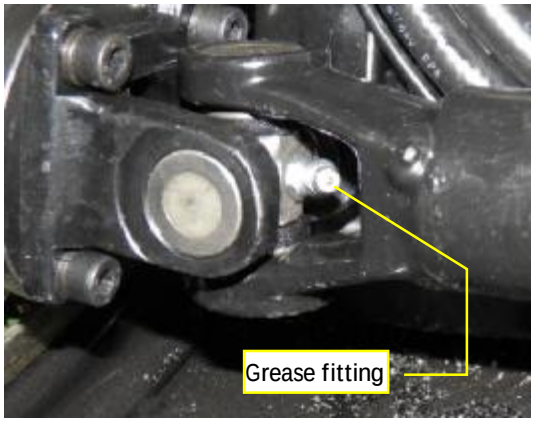
Lubrication:

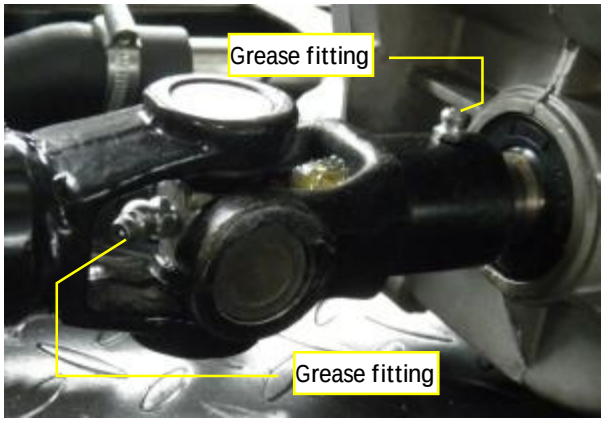
1. Front shocks (see pictures).



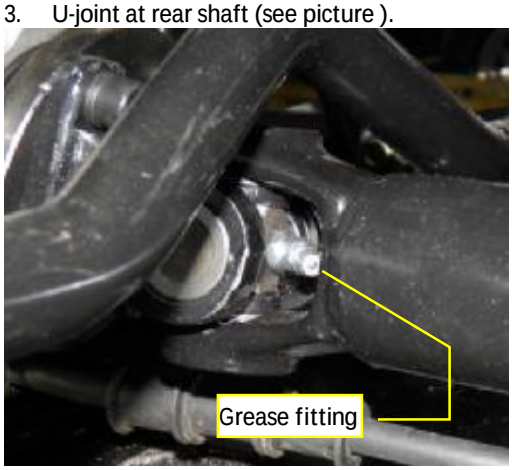


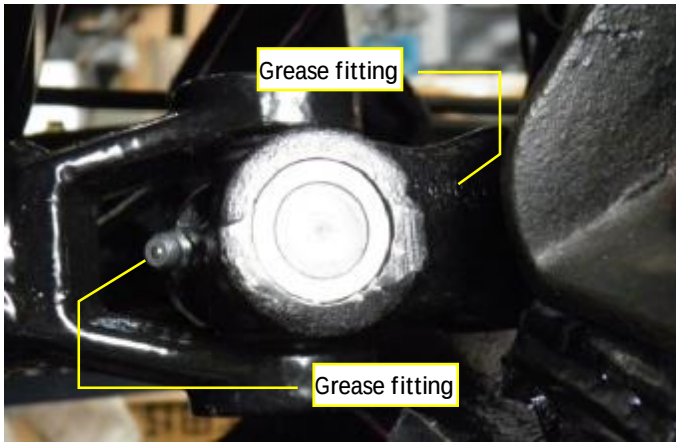
2. U-joints at front shaft (see pictures).



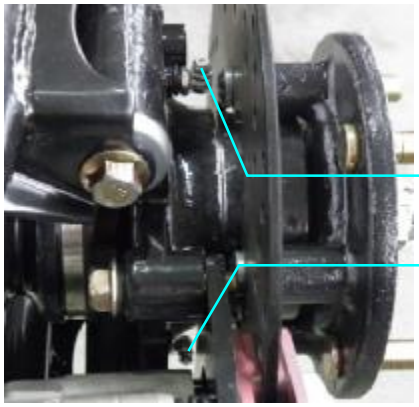


3. U-joint at rear shaft (see picture).

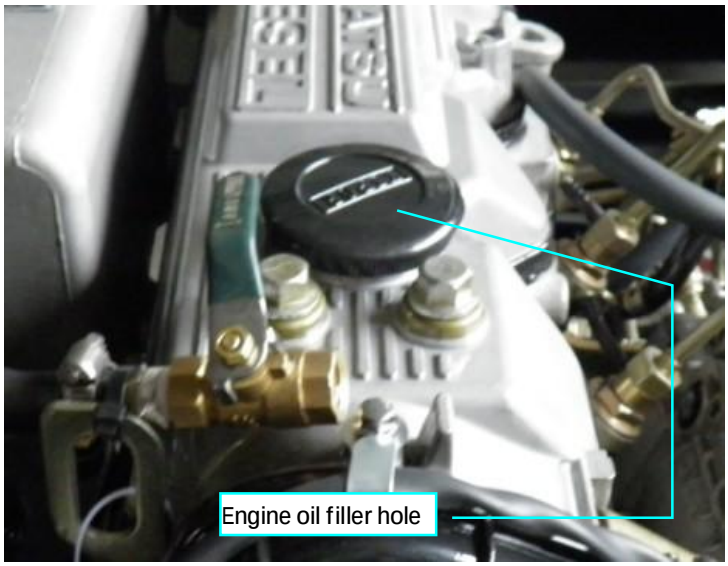


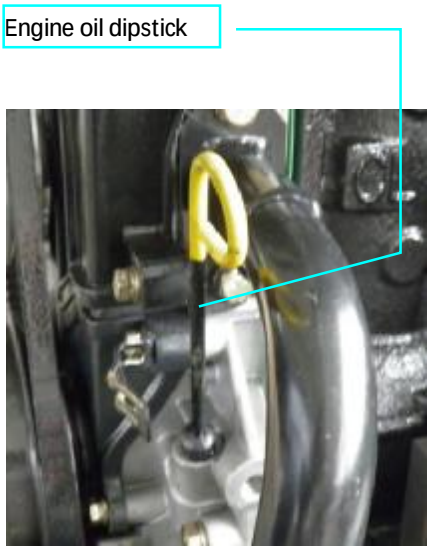


4. U-joint at rear swing arm bearing (see pictures).

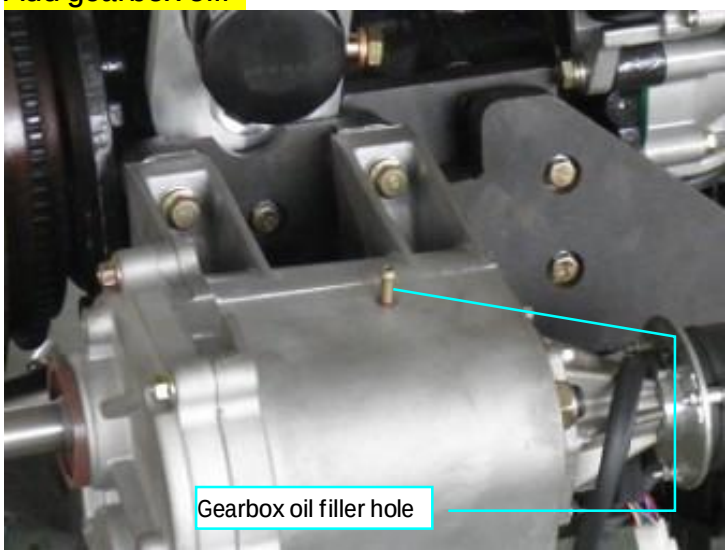


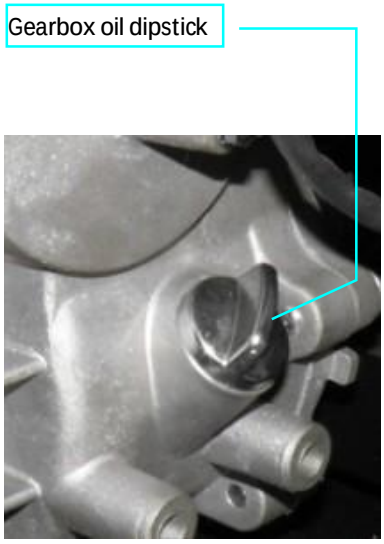
Add engine oil:



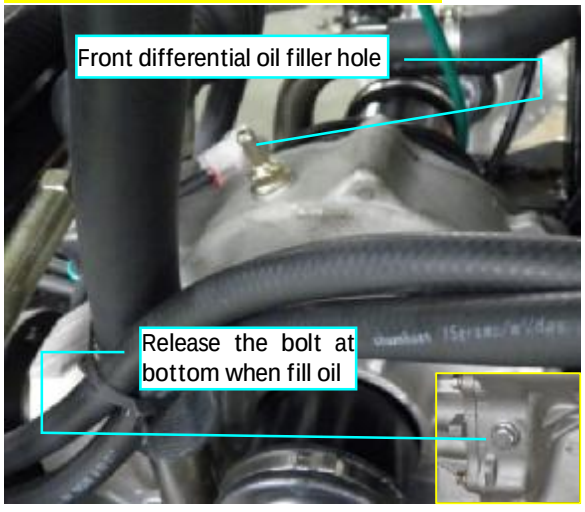


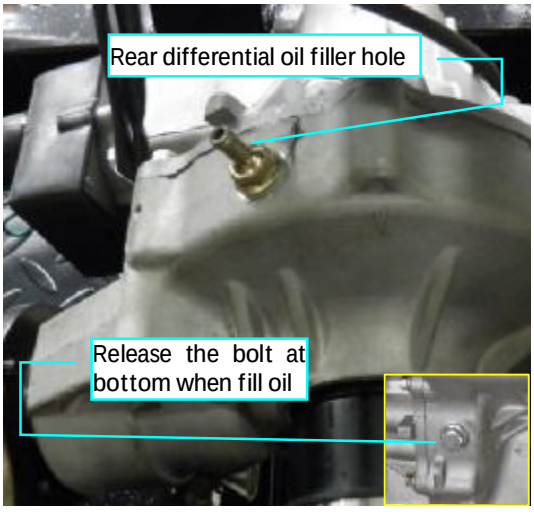
Add gearbox oil:



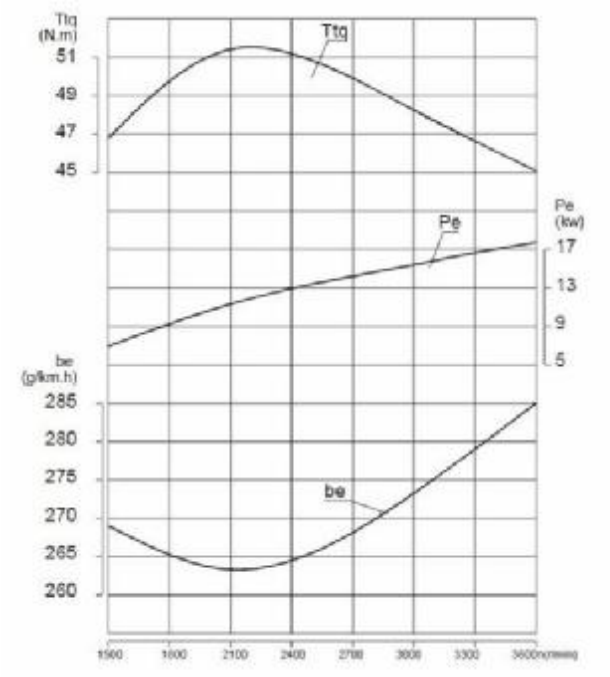


Add front & rear differential oil:





DAIHATSU 1.0L DIESEL ENGINE:



DAIHATSU 1.0 DIESEL

Daihatsu 1.0 Diesel:

Type	Three cylinder, in lined, water cooled, four stroke,swirl type
Bore×stroke (mm)	76×77
Displacement (L)	1.048
Compression ratio	21.5
Rated power/Rated speed (kW/r/min)	15.3/3000 17.5/3600
Max. torque/Rotation speed (N·m/r/min)	52/2800
The lowest stable speed at zero load (r/min)	≤1000
Lubricating system	Pressure splashed
Starting type	Electric starter
Rotation direction (face to the flywheel)	Anticlockwise
Fuel type	0#, -10#, -20#
Fuel consumption rate/rotation speed [(g/kW·h)/r/min]	280/3000 295/3600
Lube oil type	CD Grade or SAE10W-30, 15W-40
Lube oil capacity (L)	4.8
Cooling water capacity (L)	7
Starting motor capacity (V、kW)	12V 1.4kW
Charging generator capacity (V、A)	14V 25A
Accumulator capacity (V、Ah)	12V 60Ah
Overall dimension (L×W×H) (mm)	558×481×587
Dry weight (kg)	110

NOTICE : For more information of the engine, please read **"**Manual of Diesel Engine**"**.

ENGINE OIL, GEARBOX OIL, FRONT & REAR DIFF. OIL :

ENGINE OIL: 10W/30 x 4.0L (4.228qt)

1. Clean the dipstick before checking the engine oil level.
2. Make sure the oil lever is between the required level which marked on the dipstick.
3. The oil level should be approximately correct, as over filling or under filling can cause damage to the engine.

GEARBOX OIL: GL-4 85W/90 x 1.3L (1.374qt)
FRONT & REAR DIFF. OIL: GL-4 85W/90 x 1.3L (1.374qt)

Warning labels:

WARNING

Improper UTV use can result in SEVERE INJURY or DEATH.

ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR
NEVER USE ON PUBLIC ROADS
NEVER ALLOW PASSENGERS TO RIDE IN THE CARGO BOX
NEVER USE WITH DRUGS OR ALCOHOL

NEVER operate:

- without proper training or instruction.
- at speeds too fast for your skills or the conditions
- on public roads-a collision can occur with another vehicle.
- with a passenger-passengers risk of losing control.

ALWAYS:

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- avoid paved surfaces-pavement may seriously affect handing and control.

LOCATE AND READ OWNER'S MANUAL.
FOLLOW INSTRUCTIONS AND WARNINGS.

WARNING

Driving with passengers in the cargo box can result in sever injury or death.

Never allow passengers

Passengers must always ride in the cab with seat belts fastened securely.

WARNING

Pls advancing the throttle slightly when gear shifting is difficult, then shift the gear.

WARNING

Stop the UTV before gear shift. Please don't change when UTV is moving, otherwise UTV will be damaged.

WARNING

Operating this UTV if you are under the age of 16 increase your chance of severe injury or death.

NEVER operate this UTV, if you are under age 16.

WARNING

Overheating Warning:

Do not switch off the engine when temp.light turns on (engine overheating), you should stop the bike, let the engine idle till temp. light turns off. If you switch off the engine while overheating, the fan stop working, the water stop flowing, the heat inside will damage the engine.

WARNING

Maximum load in Cargo bed:500KG(1100lbs)

WARNING

IMPROPER TIRE PRESSURE CAN

CAUSE LOSS OF CONTROL.

LOSS OF CONTROL CAN RESULT IN SEVERE INJURY OR DEATH.

Check tire pressure and condition daily. Use these tires pressures for normal use of this UTV.

- Front: Max.load 340lbs at 7psi
- Rear: Max.load 420lbs at 7psi

Tire pressure should be checked when tires are cold, before you ride.
Read the Owner's Manual for more tire information.

WARNING

OVERLOADING CAN CAUSE LOSS OF CONTROL.

LOSS OF CONTROL CAN RESULT IN SEVERE INJURY OR DEATH.

Never overload this UTV. Maximum load limits for this UTV are as follows.

- CARGO BED CARRY: 500 kg (1100 lbs)
- TRAILER WEIGHT: 910kg (2006 lbs)

(TRAILER PLUS CARGO WEIGHT)

Read the Owner's Manual for more loading information.

LOAD LIMIT **WARNING**

NEVER sit here.

WARNING

Read warnings and instruction manual before operating this UTV

WARNING

4WD must be used only Off-load condition.